CONTENTS

Page

Acknowledgements xi

List of Participants xiii

SESSION I

REGULATION OF FOLATE TRANSPORT

Session Chairman: J. G. CORY

FAN, J., VITOLS, K. S. and HUENNEKENS, F. M., Multiple Folate Transport Systems in L1210 Cells 3

FREISHEIM, J. H., RATNAM, M., McALINDEN, T. P., PRASAD, K. M. R., WILLIAMS, F. E., WESTERHOF, G. R., SCHORNAGEL, J. H. and JANSEN, G., Molecular Events in the Membrane Transport of Methotrexate in Human CCRF-CEM Leukemia Cell Lines 17

SESSION II

CONTROL OF GUANYLATE METABOLISM

Session Chairman: G. H. HITCHINGS

SEVERINA, I. S., Soluble Guanylate Cyclase of Platelets: Function and Regulation in Normal and Pathological States 35

WEBER, G., NAKAMURA, H., NATSUMEDA, Y., SZEKERES, T. and NAGAI, M., Regulation of GTP Biosynthesis 57

SESSION III

PHOSPHOLIPIDS IN REGULATION

Session Chairman: A. BLOCH

MARALDI, N. M., MAZZOTTI, G., CAPITANI, S., RIZZOLI, R., ZINI, N., SQUARZONI, S. and MANZOLI, F. A., Morphological Evidence of Function-Related Localization of Phospholipids in the Cell Nucleus 73

COCCO, L., MARTELLI, A. M., GILMOUR, R. S., RANA, R. A., BARNABEI, O. and MANZOLI, F. A., Changes in Inositol Lipid Metabolism and Protein Kinase C Translocation in Nuclei of Mitogen Stimulated Swiss 3T3 Cells 91

SESSION IV

REGULATORY FACTORS

Session Chairman: O. BARNABEI

KEPPLER, D., MÜLLER, M., KLÜNEMANN, C., GUHLMANN, A., KRAUSS, K., MÜLLER, J., BERGER, U., LEIER, I. and MAYATEPEK, E., Transport and *In Vivo* Elimination of Cysteinyl Leukotrienes 107

SPENCER, J. H., Antimicrobial Peptides of Frog Skin 117

SESSION V

CONTROL OF EXPRESSION AND ACTIVITY OF GLYCOLYTIC ENZYMES

Session Chairman: H. L. PEARCE

VAN SCHAFTINGEN, E., VANDERCAMMEN, A., DETHEUX, M. and DAVIES, D. R., The Regulatory Protein of Liver Glucokinase 133

ALEXANDER-BRIDGES, M., DUGAST, I., ERCOLANI, L., XONG, X. F., GIERE, L. and NASRIN, N., Multiple Insulin-Responsive Elements Regulate Transcription of the GAPDH Gene 149

SESSION VI

CONTROL OF REPLICATION SIGNALS

Session Chairman: J. H. SPENCER

GRUNICKE, H., MALY, K., MEYER, M., OBERHUBER, H., BICHLER, I., WALDEGGER, L. S., WOELL, E. and LANG, F., Effect of Ha-*ras* on Mitogen-Induced Ca^{2+}- and K^{+}-Fluxes 163

BISHOP, W. R., PACHTER, J. A. and PAI, J.-K., Regulation of Phospholipid Hydrolysis and Second Messenger Formation by Protein Kinase C 177

SESSION VII

REGULATION IN CANCER CELLS

Session Chairman: H. GRUNICKE

FUNATO, T., YOSHIDA, E., JIAO, L., TONE, T., KASHANI-SABET, M. and SCANLON, K. J., The Utility of an Anti-*fos* Ribozyme in Reversing Cisplatin Resistance in Human Ovarian Carcinomas 195

GREENGARD, O. and HEAD, J. F., Common Characteristics of Normal and Cancerous Growth *In Vivo* 211

SESSION VIII

MOLECULAR CONTROL OF KEY ENZYMES: ROLE OF mRNA

Session Chairman: I. S. SEVERINA

CARTER, G.L. and CORY, J. G., Factors Affecting the mRNA Levels for the Non-Heme Iron and Effector-Binding Subunits of Ribonucleotide Reductase 227

WINTERSBERGER, E., ROTHENEDER, H., GRABNER, M., BECK, G. and SEISER, C., Regulation of Thymidine Kinase During Growth, Cell Cycle and Differentiation 241

MODE, A., TOLLET, P., STRÖM, A., LEGRAVEREND, C., LIDDLE, C. and GUSTAFSSON, J.-Å., Growth Hormone Regulation of Hepatic Cytochrome P450 Expression in the Rat 255

SESSION IX

REGULATION OF MITOCHONDRIAL ENZYMES

Session Chairman: D. KEPPLER

HARRIS, R. A., POPOV, K. M., SHIMOMURA, Y., ZHAO, YU., JASKIEWICZ, J., NANAUMI, N. and SUZUKI, M., Purification, Characterization, Regulation and Molecular Cloning of Mitochondrial Protein Kinases 267

SAGGERSON, D., GHADIMINEJAD, I. and AWAN, M., Regulation of Mitochondrial Carnitine Palmitoyltransferases from Liver and Extrahepatic Tissues 285

SESSION X

SPECIAL SYMPOSIUM LECTURE: R. W. E. WATTS

Session Chairman: F. M. HUENNEKENS

WATTS, R. W. E., Alanine Glyoxylate Aminotransferase Deficiency: Biochemical and Molecular Genetic Lessons from the Study of a Human Disease 309

Author Index 329

Subject Index 347

Contents of Some Previous Volumes 363